

Nevada
Environmental
Restoration
Project

DOE/NV--1293



Post-Closure Inspection Report
for Corrective Action Unit 90:
Area 2 Bitcutter Containment,
Nevada Test Site, Nevada

For the Period
July 2007–June 2008

Controlled Copy No.: _____

Revision: 0

September 2008

Environmental Restoration
Project



U.S. Department of Energy
National Nuclear Security Administration
Nevada Site Office

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**POST-CLOSURE INSPECTION REPORT
FOR CORRECTIVE ACTION UNIT 90:
AREA 2 BITCUTTER CONTAINMENT,
NEVADA TEST SITE, NEVADA**

**FOR THE PERIOD
JULY 2007–JUNE 2008**

**U.S. Department of Energy
National Nuclear Security Administration
Nevada Site Office
Las Vegas, Nevada**

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**POST-CLOSURE INSPECTION REPORT
FOR CORRECTIVE ACTION UNIT 90:
AREA 2 BITCUTTER CONTAINMENT,
NEVADA TEST SITE, NEVADA**

**FOR THE PERIOD
JULY 2007–JUNE 2008**

Approved By: /s/ Kevin Cabble
Kevin J. Cabble
Federal Sub-Project Director
Industrial Sites Sub-Project

Date: 9-4-08

Approved By: /s/ Robert Boehlecke
~~Robert F. Boehlecke~~
Federal Project Director
Environmental Restoration Project

Date: 9/4/2008

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1.0 INTRODUCTION

Corrective Action Unit (CAU) 90, Area 2 Bitcutter Containment, is identified in the *Federal Facility Agreement and Consent Order* of 1996, as amended February 2008. The post-closure requirements for CAU 90 are described in Section VII.B.8.b of the Nevada Test Site *Resource Conservation and Recovery Act* Permit for a Hazardous Waste Management Facility Number NEV HW0021, dated November 2005.

Post-closure activities consist of the following:

- Semiannual inspections of the site using inspection checklists
- Photographic documentation
- Field note documentation
- Preparation and submittal of an annual Post-Closure Inspection Report

This annual report covers the period of July 2007 to June 2008 and consists of a summary of the results of the inspections, copies of the inspection checklists and field notes, maintenance and repair records (if any), photographs, and conclusions and recommendations. The inspection checklists are provided in Appendix A, a copy of the field notes is provided in Appendix B, and copies of photographs taken during the inspections are provided in Appendix C.

2.0 RESULTS OF THE INSPECTIONS

The semiannual inspections for CAU 90 were performed on December 18, 2007, and June 17, 2008.

The December inspection indicated continued integrity of the unit. Only one animal burrow was observed near a survey marker with no impact to the cover. The fencing and signs were in excellent condition. No repairs or maintenance were recommended.

Vegetation that required removal was discovered at other CAUs during quarterly inspections in March 2008. Based on findings in other years, it was assumed that vegetative growth requiring removal would likely be present at CAU 90 also. Vegetation removal was completed as a best management practice on May 13, 2008.

The June inspection also indicated continued integrity of the waste unit cover. No animal burrows were noted on the cover. Some light vegetation was present on both covers and will be removed within 60 days of the inspection. Fencing and signs were in excellent condition. The use restriction signs will be updated to current guidance standards as a best management practice with concurrence by the Nevada Division of Environmental Protection; however, this update is not required to be completed within the regulatory compliance period.

3.0 CONCLUSIONS AND RECOMMENDATIONS

All inspections at CAU 90 indicated continued integrity of the unit. It is recommended to continue inspections as scheduled. Vegetation removal is necessary within 60 days of the June 17, 2008, inspection.

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APPENDIX A

POST-CLOSURE INSPECTION CHECKLISTS

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POST-CLOSURE INSPECTION CHECKLIST**CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Bitcutter/PS Inj. Wells (3) (RCRA)**

| | |
|---|--|
| Inspection Date and Time: <u>12/18/07</u> | Reason for Inspection: <u>Semi-Annual</u> |
| Date of Last Post-Closure Inspection: <u>June 13, 2007</u> | Reason for Last Post-Closure Inspection: <u>Semi-Annual</u> |
| Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada | |
| Responsible Facility Owner: Jeffrey L. Smith, Deputy Manager, Environmental Restoration | |
| Chief Inspector: <u>Glen Richardson</u> | Title: <u>Task Manager</u> Organization: Environmental Restoration |
| Assistant Inspector: <u>Dodley Ennis</u> | Title: <u>Sr Scientist</u> Organization: Environmental Restoration |

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected semi-annually with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

| B. PREPARATION (To be completed prior to site visit) | YES | NO | EXPLANATION (required if shaded box is checked) |
|--|-------------------------------------|-------------------------------------|---|
| 1. Has the Post-Closure Permit been reviewed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Has the Post-Closure Permit application been reviewed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3. Has the Post-Closure Plan been reviewed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Have the site as-built plans and site base map been reviewed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5. Have the previous inspection reports been reviewed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| a. Were anomalies or trends detected on previous inspections? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| b. Was maintenance performed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If maintenance was performed, has a copy of the maintenance records been obtained? | <input type="checkbox"/> | <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 6. Have the site maintenance and repair records been reviewed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| a. If so, has site repair resulted in a change from as-built conditions? | <input type="checkbox"/> | <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| b. If yes (to 6a), are revised as-built plans available that reflect repair changes? | <input type="checkbox"/> | <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

POST-CLOSURE INSPECTION CHECKLIST**CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Bitcutter/PS Inj. Wells (3) (RCRA)****C. SITE INSPECTION PREPARATION**

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

D. SITE INSPECTION

| 1. Adjacent off-site features: | YES | NO | EXPLANATION (required if shaded box is checked) |
|--|-----|----|---|
| a. Are there any new activities or features in the vicinity that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)? | | ✓ | |
| 2. Fences, gates, and signs (East Fenced Enclosure): | YES | NO | EXPLANATION (required if shaded box is checked) |
| a. Is there damage to or a break in the fence? | | ✓ | |
| b. Have any fenceposts been damaged or their anchoring weakened? | | ✓ | |
| c. Is the gate intact and functional? | ✓ | | |
| d. Does the gate show evidence of tampering or damage? | | ✓ | |
| e. Was the gate locked? | ✓ | | |
| f. Are any of the use restriction signs damaged or missing? | | ✓ | |
| g. Are all use restriction signs legible? | ✓ | | |
| h. How many use restriction signs need to be replaced? | | 0 | |
| i. Other? | | | NA |
| 3. Waste unit cover (East Fenced Enclosure): | YES | NO | EXPLANATION (required if shaded box is checked) |
| a. Is there evidence of settling? | | ✓ | |
| b. Is there evidence of cracking? | | ✓ | |
| c. Is there evidence of erosion (wind or water)? | | ✓ | |
| d. Is there evidence of human intrusion onto the cover? | | ✓ | |
| e. Is there evidence of large animal intrusion onto the cover? | | ✓ | |
| f. Is there evidence of animal burrowing? | | ✓ | |
| g. Is vegetation growing on the cover? | | ✓ | |
| h. Other (including trash, debris, etc within fenced area)? | | ✓ | NA |

POST-CLOSURE INSPECTION CHECKLIST

CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Bitcutter/PS Inj. Wells (3) (RCRA)

| 4. Fences, gates, and signs (West Fenced Enclosure): | YES | NO | EXPLANATION (required if shaded box is checked) |
|--|-----|----|---|
| a. Is there damage to or a break in the fence? | | ✓ | |
| b. Have any fenceposts been damaged or their anchoring weakened? | | ✓ | |
| c. Is the gate intact and functional? | ✓ | | |
| d. Does the gate show evidence of tampering or damage? | | ✓ | |
| e. Was the gate locked? | ✓ | | |
| f. Are any of the use restriction signs damaged or missing? | | ✓ | |
| g. Are all use restriction signs legible? | ✓ | | |
| h. How many use restriction signs need to be replaced? | 0 | | |
| i. Other? | | ✓ | NA |

| 5. Waste unit cover (West Fenced Enclosure): | YES | NO | EXPLANATION (required if shaded box is checked) |
|--|-----|----|---|
| a. Is there evidence of settling? | | ✓ | |
| b. Is there evidence of cracking? | | ✓ | |
| c. Is there evidence of erosion (wind or water)? | | ✓ | |
| d. Is there evidence of human intrusion onto the cover? | | ✓ | |
| e. Is there evidence of large animal intrusion onto the cover? | | ✓ | |
| f. Is there evidence of animal burrowing? | | ✓ | |
| g. Is vegetation growing on the cover? | | ✓ | |
| h. Other (including trash, debris, etc within fenced area)? | | | NA Sunny pad on North side has animal burrow - damaged to cover |

6. Photograph Instructions:

A total of 6 photographs are required to be taken during each inspection of CAU 90. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Three (3) of the west unit from outside the fence, one in each compass direction (i.e., N, S, E) and
- Three (3) of the east unit from outside the fence, one in each compass direction (i.e., N, S, W).

| 7. Photograph Documentation: | YES | NO | EXPLANATION (required if shaded box is checked) |
|--|-----|----|---|
| a. Have all photographs been taken as required by the photograph instructions? | ✓ | | |
| b. Has a photograph log been prepared? | | | Log number: |
| c. How many photographs were taken? | 6 | | |
| d. Other? | | | NA |

POST-CLOSURE INSPECTION CHECKLIST**CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Bitcutter/PS Inj. Wells (3) (RCRA)**

| E. FIELD CONCLUSIONS | YES | NO | EXPLANATION (required if shaded box is checked) |
|---|-----|--------------|---|
| 1. Are more frequent inspections required? | | ✓ | |
| 2. Are existing maintenance/repair actions satisfactory? | ✓ | | |
| 3. Is other maintenance/repair necessary? | | ✓ | |
| 4. Is there an imminent hazard to the integrity of the site? (Immediate report required) | | ✓ | |
| Date reported: _____ | | | |
| Person/Agency to whom report was made: _____ | | | |
| 5. Field conclusions/recommendations: <u>Site & Closures are in good condition</u> <u>with no problems noted</u> | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| F. CERTIFICATION | | | |
| I have conducted an inspection of CAU 90, Area 2 Bitcutter Containment, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs. | | | |
| Chief Inspector's Signature: <u>no signature</u> | | Date: _____ | |
| Printed Name: _____ | | Title: _____ | |

Attachments (check if attached):

- ☐ Field Notes
☐ Photos
☐ Maintenance records

POST-CLOSURE INSPECTION CHECKLIST

CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Bitcutter/PS Inj. Wells (3) (RCRA)

Inspection Date and Time: *6/17/08 1000 AM*

Reason for Inspection: *SEMI ANNUAL*

Date of Last Post-Closure Inspection: *12/18/07*

Reason for Last Post-Closure Inspection: *SEMI ANNUAL*

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Thomas A. Thiele, Project Manager, Industrial Sites, Environmental Restoration Project

Chief Inspector: *Mike Flogan*

Title: *FTL*

Organization: Environmental Restoration

Assistant Inspector: *Paul Dewitt*

Title: *FOM*

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected semi-annually with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)

YES NO EXPLANATION (required if shaded box is checked)

1. Has the Post-Closure Permit been reviewed?

X

2. Has the Post-Closure Permit application been reviewed?

X

3. Has the Post-Closure Plan been reviewed?

X

4. Have the site as-built plans and site base map been reviewed?

X

5. Have the previous inspection reports been reviewed?

X

a. Were anomalies or trends detected on previous inspections?

X

b. Was maintenance performed?

X

X

If maintenance was performed, has a copy of the maintenance records been obtained?

NA

VEGETATION REMOVAL WAS PERFORMED IN MAY 2008 AS A B.M.P. A COPY OF MAINT. RECORDS ARE AVAILABLE ON THE ER. SHARED DRIVE

6. Have the site maintenance and repair records been reviewed?

X

a. If so, has site repair resulted in a change from as-built conditions?

NA

b. If yes (to 6a), are revised as-built plans available that reflect repair changes?

NA

POST-CLOSURE INSPECTION CHECKLIST

CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Bitcutter/PS Inj. Wells (3) (RCRA)

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

D. SITE INSPECTION

| 1. Adjacent off-site features: | YES | NO | EXPLANATION (required if shaded box is checked) |
|--|-----|---------|--|
| a. Are there any new activities or features in the vicinity that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)? | | X | |
| 2. Fences, gates, and signs (East Fenced Enclosure): | YES | NO | EXPLANATION (required if shaded box is checked) |
| a. Is there damage to or a break in the fence? | | X | |
| b. Have any fenceposts been damaged or their anchoring weakened? | | X | |
| c. Is the gate intact and functional? | X | | |
| d. Does the gate show evidence of tampering or damage? | | X | |
| e. Was the gate locked? | X | | |
| f. Are any of the use restriction signs damaged or missing? | | X | Need to put NSteel to check contact it is correct. |
| g. Are all use restriction signs legible? | X | | |
| h. How many use restriction signs need to be replaced? | 4 | 0 | |
| i. Other? | | NA X | |
| 3. Waste unit cover (East Fenced Enclosure): | YES | NO | EXPLANATION (required if shaded box is checked) |
| a. Is there evidence of settling? | | X | |
| b. Is there evidence of cracking? | | X | |
| c. Is there evidence of erosion (wind or water)? | | X | |
| d. Is there evidence of human intrusion onto the cover? | | X | |
| e. Is there evidence of large animal intrusion onto the cover? | | X | |
| f. Is there evidence of animal burrowing? | | X | |
| g. Is vegetation growing on the cover? | X | | Light veg. could be removed |
| h. Other (including trash, debris, etc within fenced area)? | | X | NA |

POST-CLOSURE INSPECTION CHECKLIST

CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Bitcutter/PS Inj. Wells (3) (RCRA)

| 4. Fences, gates, and signs (West Fenced Enclosure): | YES | NO | EXPLANATION (required if shaded box is checked) |
|---|--|----|---|
| a. Is there damage to or a break in the fence? | | X | |
| b. Have any fenceposts been damaged or their anchoring weakened? | | ✓ | |
| c. Is the gate intact and functional? | X | | |
| d. Does the gate show evidence of tampering or damage? | | X | |
| e. Was the gate locked? | X | | |
| f. Are any of the use restriction signs damaged or missing? | | X | |
| g. Are all use restriction signs legible? | X | | |
| h. How many use restriction signs need to be replaced? | 4 of 15 spec. needs to be on signs 9msf Check Contract is correct | | |
| i. Other? | | | NA |
| 5. Waste unit cover (West Fenced Enclosure): | YES | NO | EXPLANATION (required if shaded box is checked) |
| a. Is there evidence of settling? | | X | |
| b. Is there evidence of cracking? | | X | |
| c. Is there evidence of erosion (wind or water)? | | X | |
| d. Is there evidence of human intrusion onto the cover? | | X | |
| e. Is there evidence of large animal intrusion onto the cover? | | X | |
| f. Is there evidence of animal burrowing? | | X | |
| g. Is vegetation growing on the cover? | X | | light, needs to be removed |
| h. Other (including trash, debris, etc within fenced area)? | | X | NA |
| 6. Photograph Instructions: | | | |
| A total of 6 photographs are required to be taken during each inspection of CAU 90. Additional photographs may also be taken. The required photographs shall be taken as follows: | | | |
| <ul style="list-style-type: none"> Three (3) of the west unit from outside the fence, one in each compass direction (i.e., N, S, E) and Three (3) of the east unit from outside the fence, one in each compass direction (i.e., N, S, W). | | | |
| 7. Photograph Documentation: | YES | NO | EXPLANATION (required if shaded box is checked) |
| a. Have all photographs been taken as required by the photograph instructions? | X | | |
| b. Has a photograph log been prepared? | X | | Log number: |
| c. How many photographs were taken? | 6 | | |
| d. Other? | | | NA X |

POST-CLOSURE INSPECTION CHECKLIST

CAU 90: AREA 2 BITCUTTER CONTAINMENT - CAS 02-20-01: Bitcutter/PS Inj. Wells (3) (RCRA)

| E. FIELD CONCLUSIONS | YES | NO | EXPLANATION (required if shaded box is checked) |
|---|-----|----|---|
| 1. Are more frequent inspections required? | | X | |
| 2. Are existing maintenance/repair actions satisfactory? | X | | |
| 3. Is other maintenance/repair necessary? | | X | |
| 4. Is there an imminent hazard to the integrity of the site? (Immediate report required) | | X | |

Date reported: _____

Person/Agency to whom report was made: _____

5. Field conclusions/recommendations: *General Site Conditions were Good.
Light Vegetation on covers should be removed.
Signs need to reflect NSTee + Check Contact B is correct
The U R Sonage will be updated to current guidance standards
AS A BMD with concurrence w/ NNSA + HDEP, However, these
changes are not required within the regulatory compliance period.*

F. CERTIFICATION

I have conducted an inspection of CAU 90, Area 2 Bitcutter Containment, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: */s/ Mike Floyd* Date: *6/17/08*

Printed Name: *Mike Floyd* Title: *Field Tech. Lead*

Attachments (check if attached):

- ☒ Field Notes
- ☒ Photos
- ☐ Maintenance records

APPENDIX B

FIELD NOTES

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TITLE

Work continued from Page _____

PROJECT NO.

BOOK NO.

169

(CAU 92) Area 6 Decon Pond Precipitation Inspection

12/11/07

Scope:

Arrived @ 1:07 PM to inspect level of precipitation on the waste unit cover. Received an e-mail notification from the UCC MEDA Station that the level of precipitation exceeded our regulatory threshold of 0.5 in. on 12/8/07 (Saturday). The precipitation event reached a level of 0.8 in.

Personnel: Glenn Richardson, Task Manager
Dudley Emer, Sr. Scientist

Equipment: Camera, Radio

Performed a site walkdown around the Decon Pond fenced area. Noticed standing water inside the NE corner of the fenced area, but was not observed on the waste unit cover. The fencing and UR signage is in good condition. Also, the wave barriers are not damaged and appear to be maintaining their stability. The site is in great condition and was not adversely affected by the precipitation event. There are no issues or concerns associated with this site. Leaving the site at 1:23 PM

/s/ Glenn Richardson

RCRA Post Closure Inspections - December 18, 2007

Personnel: Glenn Richardson - NSTec Task Mgr.

Dudley Emer - NSTec Senior Scientist, Greg Doyle - NSTec Engine Geologi

Visitors: Ted Zaferatos - NDEP

Kevin Cabbie, Janis Romo - NNSA

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605 Made in USA

Work continued to Page 170

SIGNATURE /s/ Glenn Richardson

DATE

12/18/07

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

Work continued from Page 169

Scope: Perform quarterly and semiannual post closure site inspections for the following CAUs: 90, 92, 110, + 112

Equipment: Camera

Weather Conditions: Cloudy, Extremely Low-Mid 30's

PPE: Standard Level D (hard hats are optional)

8:55AM - Left Mercury in Route to Area 2 Bitcutter Site

9:38AM - Arrived @ CAU 90 Bitcutter

Performed a Tailgate Safety Briefing w/ NNSA + NDEP.

- Discussed Cold Stress conditions, Slips/trips/fall hazards
- " balanced consumption of water to prevent dehydration
- " buddy system during walkdown

9:45AM - Performed site inspection @ CAU 90. Overall site conditions are good. There are no signs of vegetation growth. The chain link fencing and signage are in good condition. Noticed a small animal burrow inside the west fenced area; however, this not significant enough to warrant a corrective action.

9:54AM - Leaving CAU 90 in route to CAU 110 U3ax/bl.

10:10AM - Arrived @ CAU 110 and started site inspection. Greg Doyle met us at the site and participated in the site inspection. The fencing and signage looked good and was well-maintained. There were a few animal burrows identified. A follow-up action will be taken to contact D. Anderson (ecological services) to plan a site ^{visit} prior to the March inspection period. We also discovered a new crack greater than 6 ft. on the surface (lateral extent) on the east edge of the cover. Photos were taken for documentation and repair is necessary within 60 days. After discussing our observations

SIGNATURE

/s/ Glenn Richardson

DATE

12/18/07

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

TITLE

PROJECT NO.

171

BOOK NO.

Work continued from Page 170

with NNSA and NDEP, we departed the site in route to CAU 92.

Greg Doyle returned to Mercury after the 110 inspection.

11:18 AM - Arrived @ CAU 92 and performed site inspection.

Overall site conditions are great. The fencing and UR signage are well maintained. No evidence of vegetation growth.

The wave barriers are not damaged. Photo documentation was taken at this site. No issues or concerns. Left CAU 92 in route to CAU 112.

12:02 PM - Arrived @ CAU 112 and performed a site inspection.

Drove around Area 23 waste trenches to find no observations that warranted a corrective action. The UR signs and aboveground monuments are in good condition. No evidence of vegetation growth. Left CAU 112 and headed to ER Dorms.

12:10 PM - Debrief of all observations was discussed w/ NNSA and NDEP. NNSA + NDEP left the dorms in route to Mercury. End of Inspections at 12:15 PM.

Note: Photos ^{that} were taken ~~in~~ ^{will be} logged on the ER Shared Drive.

/s/ Glenn Richardson

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605 Made in USA

Work continued to Page _____

SIGNATURE

/s/ Glenn Richardson

DATE

12/18/07

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

6/17/08

RCRA INSPECTION

NSTec

Mike F1090 - ETC

Paul Dawitt - D.P.M.

PAUL PEREZ - RET

VISITORS

Kevin CARRIK - DOE

Ted Z - STATE

CAU 90 - B7 Cutter

1000 - ARRIVE on Location, talk about Safety.

Collect the following PHOTOS 1. WEST UNIT - Looking N.

Looking E.

Looking S

2 EAST UNIT - Looking S.

Looking W.

Looking N.

Light Vegetation upon Both Units needs to be removed. Change Signs on Both to reflect NSTec + Check Phone # to be sure it is correct. Signs, Fencing, Gates, Pads were found to be in good condition and locked.

1025 - Leave Location head for CAU 110

1050 - ARRIVE AT CAU 110, Inspection has already been completed on 6/5/08. going to walk the site w/ Ted & Kevin.

1115 - Leaving CAU 110, going to Decor Pond, no issues or concerns at CAU 110.

1130 - ARRIVE AT CAU 92. General Site Conditions in good shape. Lite Vegetation (not a problem currently) Recommended

Work continued to Page 165

SIGNATURE /s/ Mike Floyd

DATE

6/17/08

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DATE

WITNESS

DATE

TITLEWork continued from Page 1646/17/08PROJECT NO. PCAN Inspection **165**
BOOK NO.

1130 cont. - Spraying w/ herbicide to remove them in the
near future prior to next inspection.

1155 - Leaving Camp 92, Head for Camp 112

1220 - Arrive at Camp 112, site was found to be in
good condition, 2 signs on the north side
were loose and need to be reattached. But
overall site condition was found to be in good
condition

1235 - Return to Camp

/s/ M Floyd

SIGNATURE /s/ Mike Floyd

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DATE

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DATE

DATE

Work continued to Page _____

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APPENDIX C

INSPECTION PHOTOGRAPHS

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PHOTOGRAPH LOG

| PHOTOGRAPH NUMBER | DATE | DESCRIPTION |
|----------------------|------------|---------------------------------|
| 1 | 12/18/2007 | View of west unit looking north |
| 2 | 12/18/2007 | View of west unit looking east |
| 3 | 12/18/2007 | View of west unit looking south |
| 4 | 12/18/2007 | View of east unit looking south |
| 5 | 12/18/2007 | View of east unit looking west |
| 6 | 12/18/2007 | View of east unit looking north |
| 7 | 6/17/2008 | View of west unit looking north |
| 8 | 6/17/2008 | View of west unit looking east |
| 9 | 6/17/2008 | View of west unit looking south |
| 10 | 6/17/2008 | View of east unit looking south |
| 11 | 6/17/2008 | View of east unit looking west |
| 12 | 6/17/2008 | View of east unit looking north |

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Photograph 1: View of west unit looking north, 12/18/2007



Photograph 2: View of west unit looking east, 12/18/2007



Photograph 3: View of west unit looking south, 12/18/2007



Photograph 4: View of east unit looking south, 12/18/2007



Photograph 5: View of east unit looking west, 12/18/2007



Photograph 6: View of east unit looking north, 12/18/2007



Photograph 7: View of west unit looking north, 6/17/2008



Photograph 8: View of west unit looking east, 6/17/2008



Photograph 9: View of west unit looking south, 6/17/2008



Photograph 10: View of east unit looking south, 6/17/2008



Photograph 11: View of east unit looking west, 6/17/2008



Photograph 12: View of east unit looking north, 6/17/2008

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